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APPLICATION NO	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/689,656	1	0/22/2003	Mikhail Kejzelman	003301-054	6495 ·	
21839	7590	06/10/2005		EXAM	EXAMINER	
		ECKER & MAT	JENKINS,	JENKINS, DANIEL J		
	OST OFFICE BOX 1404 LEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER	
	,			1742		
				DATE MAIL ED. 06/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Cummans	10/689,656	KEJZELMAN ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAII INO DATE of this communication as	Daniel J. Jenkins	1742					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 28 I	February 2005.						
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>20-48</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) <u>20-48</u> is/are rejected. Claim(s) is/are objected to.						
Application Papers							
9)☐ The specification is objected to by the Examin	nor						
	cepted or b) objected to by the B	Fxaminer.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Da						

Application/Control Number: 10/689,656 Page 2

Art Unit: 1742

1. The Examiner has carefully considered Applicant's Response of 2/28/05. The Examiner finds, based on Applicant's argument and upon further investigation of ANCOSTEEL product specs, that the prior applied prior art contains small powders outside of the claimed range amount. At this time, the Examiner makes a new rejection which is accordingly not made final.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 20-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ozaki et al.

Application/Control Number: 10/689,656

Art Unit: 1742

Ozaki et al. discloses the invention substantially as claimed. Ozaki et al. discloses a method of forming a green compact comprising:

providing an iron-based powder:

compacting the iron-based powder to form a green compact.

Ozaki et al. discloses particle size distribution that overlaps that as claimed by Applicant, with the minimum pariicle size limitation less than that as claimed (col. 3, lines 46-53; see several examples of A1 to A17 with -150um amounts less than 5%. Ozaki et al. further discloses addition of alloying agents to the powder.

Ozaki et al. further discloses wherein the compacting takes place at high pressure, including examples of pressure at 1,177 MPa (col. 14, lines 43-45), including including a lubricant of zinc stearate (col. 14, lines 51-55). It is common knowledge that graphite and zinc stearate are equivalent lubricants in the same field of endearvor, the substitution thus being obvious.

Ozaki et al. diclosses a desirable maximum particle size of 1 mm, but states that the reason for the size restriction is to prevent particle size distribution (col. 3, lines 36-44), but one of ordinary skill would recognize that Ozaki et al. would allow for a miminum amount i.e. max partice size to greater than 1 mm if the amount of particles of this size would not disturb size distribution during die loading.

Although Ozaki et al. is silent as to the green compact being removed from the die in which it is compacted, such a removal would be inherent in the disclosed process to recover the formed product.

Art Unit: 1742

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 571-272-1242. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1242. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel J. Jenkins Primary Examiner Art Unit 1742